CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and

listings, of claims in the application:

Listing of Claims:

1 (currently amended). A method for operating an aircraft

early warning system, which comprises:

processing transmitted data on-line transmitted from an

aircraft to a ground station and the data being only derived

from systems on board the aircraft;

displaying cockpit, aircraft, and environmental parameters;

and

making a change to minimize risk and prevent accidents.

2 (original). The method according to claim 1, which

comprises alerting an on-board crew-member and optimizing

workloads to minimize the risk.

3 (original). The method according to claim 1, which

comprises:

extracting further data containing "what-if" scenarios;

querying a plurality of pre-stored events and detecting a
hazardous event with simulation; and

assessing a risk of an aircraft operation and determining a
probability of a reoccurrence of a detected event.

4 (original). The method according to claim 3, which
comprises displaying and replaying the detected event in a
three-dimensional view.

5 (original). The method according to claim 3, which
comprises identifying, evaluating and implementing
alternatives for mitigating the risk.

6 (original). The method according to claim 1, which
comprises alerting ground staff if an emergency situation
occurs.

7 (original). The method according to claim 6, which
comprises setting landing priorities to expedite a safe
landing.

8 (original). The method according to claim 6, which comprises sending instructions to an aircraft auto-flight system for assuming control of the aircraft.

9 (original). The method according to claim 6, which comprises sending instructions to an aircraft auto-flight system for maneuvering the aircraft.

10 (original). The method according to claim 6, wherein the ground staff assumes remote operation of the aircraft.

11 (original). The method according to claim 1, which further comprises transmitting aircraft data and/or voice to a secure ground storage and distribution unit for backing up information contained in aircraft black boxes.

12 (original). The method according to claim 11, which further comprises distributing the data from the black boxes to at least one of an airline and federal personal for at least one of security analysis and flight operational quality assurance analysis.

13 (currently amended). A ~~computer-readable~~ computer-readable medium having ~~program~~ computer-executable

instructions for performing a method for providing aircraft

early warnings, <u>the method</u> comprising:

processing transmitted data on-line <u>transmitted from an</u>

<u>aircraft to a ground station and the data being only derived</u>

<u>from systems on board the aircraft</u>;

displaying cockpit and aircraft parameters and environment;

and

making a change to minimize a risk and prevent accidents.

14 (currently amended). The ~~computer readable~~ <u>computer-</u>

<u>readable</u> medium of claim 13, further comprising further

program instructions for alerting an on-board crew and

optimizing workloads to minimize the risk.

15 (currently amended). The ~~computer readable~~ <u>computer-</u>

<u>readable</u> of claim 13, further comprising further program

instructions for:

extracting further data containing "what-if" scenarios;

querying a plurality of pre-stored events and detecting a

hazardous event with simulation; and

assessing a risk of an aircraft operation and determining a

probability of a reoccurrence of a detected event.

16 (currently amended). The ~~computer readable~~ computer-

readable of claim 15, further comprising further program

instructions for displaying and replaying the detected event

in a three-dimensional view.

17 (currently amended). The ~~computer readable~~ computer-

readable of claim 15, further comprising further program

instructions for identifying, evaluating and implementing

alternatives for mitigating the risk.

18 (currently amended). The ~~computer readable~~ computer-

readable medium of claim 13, further comprising further

program instructions for alerting ground staff if an

emergency situation, occurs.

19 (currently amended). The ~~computer readable~~ computer-

readable medium of claim 18, further comprising further

program instructions for setting landing priorities to

expedite a safe landing.

20 (new). The method according to claim 1, which further comprises transmitting the data using a satellite network.

21 (new). The method according to claim 1, which further comprises transmitting the data using a wireless IP network.